

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listings of claims in the application.

Listings of Claims:

1. (Currently Amended) An information processing apparatus for transmitting information to a transmission party via a network in predetermined units, said information processing apparatus comprising:

first transmission ~~means~~unit for transmitting first information to said transmission party via said network in said units;

receiving ~~means~~unit for receiving, from said transmission party, receiving information about the reception of said first information transmitted by said first transmission ~~means~~unit;

clocking ~~means~~unit for clocking the time from when said first information is transmitted;

determination ~~means~~unit for determining whether or not the time clocked by said clocking ~~means~~unit exceeds a reference value; and

second transmission ~~means~~unit for retransmitting said first information when said determination ~~means~~unit determines that the time clocked by said clocking ~~means~~unit does not exceed said reference value and for transmitting second information when said determination ~~means~~unit determines that the time clocked by said clocking ~~means~~unit exceeds said reference value, in a case where said received information received by said receiving ~~means~~unit indicates that said transmission party has not yet received said first information.

2. (Currently Amended) An information processing apparatus according to claim 1, wherein said units ~~are~~ comprise packets.

3. (Currently Amended) An information processing apparatus according to claim 2, further comprising:

dividing meansunit for dividing ~~information for individual first packets~~ corresponding to first and second information into ~~information for a plurality of corresponding individual second packets,~~

wherein

said first and second transmission meansunit transmit said first and second information by using said plurality of corresponding individual second packet-packets ~~as units~~.

4. (Currently Amended) An information processing apparatus according to claim 3, further comprising setting meansunit for setting a flag indicating that the time clocked by said clocking meansunit exceeds said reference value when determined by said determination meansunit.

5. (Currently Amended) An information processing apparatus according to claim 4, further comprising:

writing meansunit for writing said flag into said second information which is transmitted by said second transmission meansunit when said flag is set by said setting meansunit; and

clearing meansunit for clearing said flag when all of said second packets which form one of said first packets are transmitted to said transmission party.

6. (Original) An information processing method for use with an information processing apparatus for transmitting information to a transmission party via a network in predetermined units, said information processing method comprising:

a first transmission step of transmitting first information to said transmission party via said network in said units;

a receiving step of receiving, from said transmission party, receiving information about the reception of said first information transmitted in said first transmission step;

a clocking step of clocking the time from when said first information is transmitted;

a determination step of determining whether or not the time clocked in said clocking step exceeds a reference value; and

a second transmission step of retransmitting said first information when said determination step determines that the time clocked in said clocking step does not exceed said reference value and for transmitting second information when said determination step determines that the time clocked in said clocking step exceeds said reference value, in a case where said received information received in said receiving step indicates that said transmission party has not yet received said first information.

7. (Original) A recording medium having recorded thereon a computer-readable program in a case where a computer controls an operation of transmitting information to a transmission party via a network in predetermined units, said program comprising:

a first transmission step of transmitting first information to said transmission party via said network in said units;

a receiving step of receiving, from said transmission party, receiving information about the reception of said first information transmitted in said first transmission step;

a clocking step of clocking the time from when said first information is transmitted;

a determination step of determining whether or not the time clocked in said clocking step exceeds a reference value; and

a second transmission step of retransmitting said first information when said determination step determines that the time clocked in said clocking step does not exceed said reference value and for transmitting second information when said determination step determines that the time clocked in said clocking step exceeds said reference value, in a case where said received information received in said receiving step indicates that said transmission party has not yet received said first information.

8. (Original) A program in a case where a computer controls an operation of transmitting information to a transmission party via a network in predetermined units, said program comprising:

a first transmission step of transmitting first information to said transmission party via said network in said units;

a receiving step of receiving, from said transmission party, receiving information about the reception of said first information transmitted in said first transmission step;

a clocking step of clocking the time from when said first information is transmitted;

a determination step of determining whether or not the time clocked in said clocking step exceeds a reference value; and

a second transmission step of retransmitting said first information when said determination step determines that the time clocked in said clocking step does not exceed said reference value and for transmitting second information when said determination step determines that the time clocked in said clocking step exceeds said reference value, in a case where said received information received in said receiving step indicates that said transmission party has not yet received said first information.

9. (Currently Amended) An information processing apparatus for receiving information, transmitted via a network, for individual second packets which are created by dividing information of individual first packets, said information processing apparatus comprising:

receiving means for receiving said information transmitted for each of said second packets via said network;

storage means for storing, for each of said first corresponding packets, information for each of said second packets received by said receiving means;

assembling means for assembling information for each of said second packets stored in said storage means into information for each of said first packets before being divided;

first deletion ~~meansunit~~ for deleting each of said second ~~packet~~ packets, stored in said storage ~~meansunit~~, corresponding to said ~~first-assembled~~ information for each of said second ~~packet~~ packets when each of said second ~~packet~~ packets is assembled into said corresponding individual first ~~corresponding packet~~ packets by said assembling ~~meansunit~~;

determination ~~meansunit~~ for determining whether or not a predetermined flag is contained in the information received by said receiving ~~meansunit~~; and

second deletion ~~meansunit~~ for deleting said second packet, stored in said storage ~~meansunit~~, corresponding to said first packet which is prior to said first packet to which said second packet in which said flag is contained corresponds when said determination ~~meansunit~~ determines that said flag is contained in the information received by said receiving ~~meansunit~~.

10. (Currently Amended) An information processing method for use with an information processing apparatus for receiving information, transmitted via a network, for individual second packets which are created by dividing information for individual first packets, said information processing method comprising:

a receiving step of receiving said information transmitted for each of said second packets via said network;

a storing step of storing, for each of said first corresponding packets, information for each of said second packets received in said receiving step;

an assembling step of assembling information for each of said second packets, stored in said storing step, into information for each of said first packets before being divided;

a first deletion step of deleting each of said second ~~packet~~ packets, stored in said storing step, corresponding to said ~~first-assembled~~ information for each of said second packets ~~packet~~ when each of said second ~~packets~~ packet is assembled into said corresponding individual first ~~corresponding packet~~ packets in said assembling step;

a determination step of determining whether or not a predetermined flag is contained in the information received in said receiving step; and

a second deletion step of deleting said second packet, stored in said storing step, corresponding to said first packet which is prior to said first packet to which said second packet

in which said flag is contained corresponds when said determination step determines that said flag is contained in the information received in said receiving step.

11. (Currently Amended) A recording medium having recorded thereon a computer-readable program for causing a computer to perform an operation of receiving information, transmitted via a network, for individual second packets which are created by dividing information for individual first packets, said program comprising:

a receiving step of receiving said information transmitted for each of said second packets via said network;

a storing step of storing, for each of said first corresponding packets, information for each of said second packets received in said receiving step;

an assembling step of assembling information for each of said second packets, stored in said storing step, into information for each of said first packets before being divided;

a first deletion step of deleting each of said second packet~~packets~~, stored in said storing step, corresponding to said ~~first-assembled~~ information for each of said second packets~~packet~~ when each of said second packets ~~packet~~ is assembled into said corresponding individual first ~~corresponding packet~~~~packets~~ in said assembling step;

a determination step of determining whether or not a predetermined flag is contained in the information received in said receiving step; and

a second deletion step of deleting said second packet, stored in said storing step, corresponding to said first packet which is prior to said first packet to which said second packet in which said flag is contained corresponds when said determination step determines that said flag is contained in the information received in said receiving step.

12. (Currently Amended) A program for causing a computer to perform an operation of receiving information, transmitted via a network, for individual second packet which are created by dividing information for individual first packets, said program comprising:

a receiving step of receiving said information transmitted for each of said second packets via said network;

a storing step of storing, for each of said first corresponding packets, information for each of said second packets received in said receiving step;

an assembling step of assembling information for each of said second packets, stored in said storing step, into information for each of said first packets before being divided;

a first deletion step of deleting each of said second ~~packet~~packets, stored in said storing step, corresponding to said ~~first assembled~~ information for each of said second packets ~~packet~~ when each of said second ~~packet~~packets is assembled into said corresponding individual first ~~corresponding packet~~packets in said assembling step;

a determination step of determining whether or not a predetermined flag is contained in the information received in said receiving step; and

a second deletion step of deleting said second packet, stored in said storing step, corresponding to said first packet which is prior to said first packet to which said second packet in which said flag is contained corresponds when said determination step determines that said flag is contained in the information received in said receiving step.